TASK 3 : chatbot.py

import nltk  
from nltk.chat.util import Chat, reflections  
  
# You might need to download this the first time  
# Uncomment this line below the first time you run it:  
# nltk.download('punkt')  
  
# Define chatbot responses  
pairs = [  
 [  
 r"hi|hello|hey",  
 ["Hello! How can I help you?", "Hi there! What can I do for you?"]  
 ],  
 [  
 r"what is your name ?",  
 ["I am a simple AI chatbot created by Haris.",]  
 ],  
 [  
 r"how are you ?",  
 ["I'm doing great! How about you?", "I'm fine, thanks for asking!"]  
 ],  
 [  
 r"sorry (.\*)",  
 ["No worries!", "It's okay, no problem."]  
 ],  
 [  
 r"(.\*) your name ?",  
 ["I'm a chatbot created for this task.",]  
 ],  
 [  
 r"(.\*) help (.\*)",  
 ["Sure, I'm here to help you. What do you need assistance with?"]  
 ],  
 [  
 r"quit",  
 ["Goodbye! Have a nice day!"]  
 ]  
]  
  
# Create the chatbot  
chatbot = Chat(pairs, reflections)  
  
# Start the chat  
print("Hello! I'm your AI chatbot. Type 'quit' to exit.")  
chatbot.converse()

**output:**

C:\Users\haris\PycharmProject\Chatbot\_Task\venv\Scripts\python.exe C:/Users/haris/PycharmProject/Chatbot\_Task/chatbot.py

Hello! I'm your AI chatbot. Type 'quit' to exit.

>hi

Hello! How can I help you?

>how are you

I'm doing great! How about you?

>what is your name

I am a simple AI chatbot created by Haris.